I.   AMENDMENTS TO THE SPECIFICATION:

Please amend the specification as follows.

1.   Kindly replace the paragraph on page 3, lines 7-12, which begins with "The problem is the same...," with the following new paragraph:

To solve these problems, the present applicant newly developed an ultrasonic vibration detecting sensor completely different in structure and function from the existing accelerometer or vibrometer, and developed a human status measuring method using this ultrasonic vibration detecting sensor, which is disclosed in Japanese ~~Laid-open~~ Patent Application No. 2002-118842.

2.   Kindly replace the paragraph on page 27, lines 20-25, which begins with "The fuzzy If-Then rule...," with the following new paragraph:

The fuzzy If-Then rule expressed in formula (1) is disclosed in the publication by L. A. Zaden, ~~Fuzzy Sets and Applications~~, John Witey and Sons, 1987 (hereafter, the "Fuzzy Sets Reference"), which is incorporated herein in its entirety by reference. The fuzzy If-Then rule taught by the Fuzzy Sets Reference is a known rule among those skilled in the art in the technical field of fuzzy theory. ~~In particular, the Fuzzy Sets Reference discloses that the union of two fuzzy sets A and B with respective~~

membership functions $f_A(x)$ and $f_B(x)$ is a fuzzy set C, written as $C = A \cup B$, whose membership function $f_C(x)$ is related to those of A and B by

$$f_C(x) = \text{Max} [f_A(x), f_B(x)], \quad x \in X \tag{3}$$

or, in abbreviated form

$$f_C = f_A \vee f_B(x) \tag{4}$$

Here, $\cup$ has the associative property, namely, $A \cup (B \cup C) = (A \cup B) \cup C$.